

SUPERTRONIC®-C-PVC

colour code DIN 47100, EMC-preferred type



HELUKABEL® SUPERTRONIC®-C-PVC 4x0,25 QMM / 49633 350 V CE

TECHNICAL DATA

PVC drag chain cable in alignment with DIN VDE 0285-525-1 / DIN EN 50525-1

| | |
|-------------------------------|--|
| Temperature range | flexible -5°C to +70°C fixed -40°C to +70°C |
| Nominal voltage | AC U 350 V |
| Test voltage core/core | 1500 V |
| Breakdown voltage | 3000 V |
| Coupling resistance | at 30 MHz, approx. 250 Ohm/km |
| Minimum bending radius | flexible 7.5x Outer-Ø fixed 4x Outer-Ø |

■ CABLE STRUCTURE

- Copper wire bare, extra finely stranded
- Wire structure:
 - 0.14 mm²: approx. 18 x 0.10 mm
 - 0.25 mm²: approx. 32 x 0.10 mm
 - 0.34 mm²: approx. 42 x 0.10 mm
- Core insulation: PVC acc. to DIN VDE 0207-363-3 / DIN EN 50363-3 (compound type T12)
- Core identification acc. to DIN 47100, colour coded
- x = without protective conductor
- Cores stranded in layers with optimally matched lay lengths
- Fleece wrapping
- Screen: braided screen of tinned copper, approx. coverage 85%
- Outer sheath: Special-PVC acc. to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1 (compound type TM2)
- Sheath colour: grey (RAL 7001)
- Length marking: in metres

■ PROPERTIES

- largely resistant to: oil, for details, see "Technical Information"
- low adhesion
- suitable for use in drag chains
- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

■ TESTS

- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2

■ APPLICATION

These cables are ideal for the use in drag chain applications; for frequent lifting and bending stress in machine and tool construction, in robotics and on permanently moving machine parts. A long service life also guarantees reliable function and high efficiency. EMC= Electromagnetic Compatibility; in order to optimise EMC properties, we recommend a double-sided and all-round large contact area of the copper braiding.

■ NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only
- for use in energy supply systems:
 - 1) the assembly instructions must be observed
 - 2) for further application parameters, please refer to the selection tables
 - 3) for special applications, we recommend contacting us and using our data entry form for energy supply systems

| Part no. | No. cores x cross-sec. mm ² | AWG, approx. | Outer Ø mm, approx. | Cu-weight kg/km | Weight kg/km, approx. |
|----------|--|--------------|---------------------|-----------------|-----------------------|
| 49620 | 2 x 0.14 | 26 | 3.9 | 11.2 | 33.0 |
| 49621 | 3 x 0.14 | 26 | 4.3 | 14.1 | 36.0 |
| 49622 | 4 x 0.14 | 26 | 4.6 | 15.5 | 41.0 |
| 49623 | 5 x 0.14 | 26 | 4.9 | 18.3 | 46.0 |
| 49624 | 7 x 0.14 | 26 | 5.7 | 27.6 | 70.0 |
| 49625 | 10 x 0.14 | 26 | 6.6 | 39.3 | 88.0 |
| 49626 | 12 x 0.14 | 26 | 6.6 | 41.1 | 97.0 |
| 49627 | 14 x 0.14 | 26 | 7.1 | 45.3 | 105.0 |
| 49628 | 18 x 0.14 | 26 | 7.7 | 54.1 | 122.0 |
| 49629 | 24 x 0.14 | 26 | 8.9 | 66.3 | 156.0 |
| 49630 | 25 x 0.14 | 26 | 9.5 | 68.4 | 162.0 |
| 49631 | 2 x 0.25 | 24 | 4.6 | 14.9 | 39.0 |
| 49632 | 3 x 0.25 | 24 | 4.8 | 18.8 | 45.0 |
| 49633 | 4 x 0.25 | 24 | 5.2 | 21.3 | 52.0 |
| 49634 | 5 x 0.25 | 24 | 5.8 | 31.0 | 70.0 |
| 49635 | 7 x 0.25 | 24 | 6.6 | 39.6 | 88.0 |
| 49636 | 10 x 0.25 | 24 | 7.8 | 53.9 | 114.0 |

| Part no. | No. cores x cross-sec. mm ² | AWG, approx. | Outer Ø mm, approx. | Cu-weight kg/km | Weight kg/km, approx. |
|----------|--|--------------|---------------------|-----------------|-----------------------|
| 49637 | 12 x 0.25 | 24 | 7.8 | 59.1 | 128.0 |
| 49638 | 14 x 0.25 | 24 | 8.4 | 64.2 | 140.0 |
| 49639 | 18 x 0.25 | 24 | 9.2 | 78.4 | 166.0 |
| 49640 | 24 x 0.25 | 24 | 10.8 | 89.9 | 210.0 |
| 49641 | 25 x 0.25 | 24 | 11.2 | 101.0 | 220.0 |
| 49642 | 2 x 0.34 | 22 | 5.0 | 16.1 | 46.0 |
| 49643 | 3 x 0.34 | 22 | 5.3 | 28.7 | 62.0 |
| 49644 | 4 x 0.34 | 22 | 5.9 | 35.7 | 80.0 |
| 49645 | 5 x 0.34 | 22 | 6.3 | 39.1 | 88.0 |
| 49646 | 7 x 0.34 | 22 | 7.5 | 52.7 | 116.0 |
| 49647 | 10 x 0.34 | 22 | 8.9 | 67.4 | 156.0 |
| 49648 | 12 x 0.34 | 22 | 8.9 | 76.4 | 167.0 |
| 49649 | 14 x 0.34 | 22 | 9.5 | 85.3 | 195.0 |
| 49650 | 18 x 0.34 | 22 | 10.4 | 99.7 | 225.0 |
| 49651 | 24 x 0.34 | 22 | 12.2 | 147.1 | 312.0 |
| 49652 | 25 x 0.34 | 22 | 12.7 | 155.0 | 325.0 |